SUMMARY YEAR 1
PROPOSAL BUDGET FOR NSF USE ONLY

PRUPUSAL BUDGE			FUI	K NSF			
ORGANIZATION				NO.	DURATIO	ON (months)	
Wesleyan University					Proposed	Grante	
PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR		AV	/ARD N	IO.			
James B Lipton							
A. SENIOR PERSONNEL: PI/PD, Co-PI's, Faculty and Other Senior Associates	N P	SF Funde erson-mo	d s.	Des	Funds	Funds	
(List each separately with title, A.7. show number in brackets)		ACAD		Rec	quested By proposer	granted by N (if different	
1. James B Lipton - PI	0.00	0.00	2.00	\$	14,000	\$	
2. Daniel J Dougherty - co-PI		0.00			16,038		
3.	0.00	0.00	2.00		10,000		
4.							
5.							
6. (0) OTHERS (LIST INDIVIDUALLY ON BUDGET JUSTIFICATION PAGE)	0.00	0.00	0.00)	0		
7. (2) TOTAL SENIOR PERSONNEL (1 - 6)		0.00			30,038		
\	0.00	0.00	4.00		30,030		
B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS)	0.00	0.00	0.00		Δ		
1. (0) POST DOCTORAL ASSOCIATES		0.00			0		
2. (0) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, ETC.)	0.00	0.00	0.00)	0		
3. (0) GRADUATE STUDENTS					0		
4. (0) UNDERGRADUATE STUDENTS					0		
5. (0) SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY)					0		
6. (0) OTHER					0		
TOTAL SALARIES AND WAGES (A + B)					30,038		
C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS)					2,313		
TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C)					32,351		
D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM EXCEEDIN	NG \$5,000	0.)					
2 workstations	\$:	8,500				
2 WORKStations			-				
2 workstations							
2 workstations							
2 workstations							
					9.500		
TOTAL EQUIPMENT					8,500		
TOTAL EQUIPMENT E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS)					2,000		
TOTAL EQUIPMENT							
TOTAL EQUIPMENT E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS)					2,000		
TOTAL EQUIPMENT E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS) 2. FOREIGN					2,000		
TOTAL EQUIPMENT E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS) 2. FOREIGN F. PARTICIPANT SUPPORT COSTS				-	2,000		
TOTAL EQUIPMENT E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS) 2. FOREIGN F. PARTICIPANT SUPPORT COSTS 1. STIPENDS					2,000		
TOTAL EQUIPMENT E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS) 2. FOREIGN F. PARTICIPANT SUPPORT COSTS 1. STIPENDS 2. TRAVEL 10,000				-	2,000		
TOTAL EQUIPMENT E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS) 2. FOREIGN F. PARTICIPANT SUPPORT COSTS 1. STIPENDS 2. TRAVEL 3. SUBSISTENCE 10,000					2,000		
TOTAL EQUIPMENT E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS) 2. FOREIGN F. PARTICIPANT SUPPORT COSTS 1. STIPENDS 2. TRAVEL 10,000				-	2,000		
TOTAL EQUIPMENT E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS) 2. FOREIGN F. PARTICIPANT SUPPORT COSTS 1. STIPENDS 2. TRAVEL 3. SUBSISTENCE 4. OTHER 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS) 2. FOREIGN 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS) 2. FOREIGN 0 0 0 0 0 0 0 0 0 0 0 0 0					2,000 4,500		
TOTAL EQUIPMENT E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS) 2. FOREIGN F. PARTICIPANT SUPPORT COSTS 1. STIPENDS 2. TRAVEL 3. SUBSISTENCE 4. OTHER (11) TOTAL PARTICIPANT COSTS					2,000		
TOTAL EQUIPMENT E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS) 2. FOREIGN F. PARTICIPANT SUPPORT COSTS 1. STIPENDS \$ 2. TRAVEL 3. SUBSISTENCE 4. OTHER (11) TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS					2,000 4,500		
TOTAL EQUIPMENT E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS) 2. FOREIGN F. PARTICIPANT SUPPORT COSTS 1. STIPENDS \$ 2. TRAVEL 3. SUBSISTENCE 4. OTHER (11) TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS 1. MATERIALS AND SUPPLIES					2,000 4,500 10,000 1,274		
TOTAL EQUIPMENT E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS) 2. FOREIGN F. PARTICIPANT SUPPORT COSTS 1. STIPENDS 2. TRAVEL 3. SUBSISTENCE 4. OTHER (11) TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS 1. MATERIALS AND SUPPLIES 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION					2,000 4,500 10,000 1,274 0		
TOTAL EQUIPMENT E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS) 2. FOREIGN F. PARTICIPANT SUPPORT COSTS 1. STIPENDS 2. TRAVEL 3. SUBSISTENCE 4. OTHER (11) TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS 1. MATERIALS AND SUPPLIES 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES					2,000 4,500 10,000 1,274 0		
TOTAL EQUIPMENT E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS) 2. FOREIGN F. PARTICIPANT SUPPORT COSTS 1. STIPENDS 2. TRAVEL 3. SUBSISTENCE 4. OTHER (11) TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS 1. MATERIALS AND SUPPLIES 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER SERVICES					10,000 1,274 0 0		
TOTAL EQUIPMENT E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS) 2. FOREIGN F. PARTICIPANT SUPPORT COSTS 1. STIPENDS 2. TRAVEL 3. SUBSISTENCE 4. OTHER (11) TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS 1. MATERIALS AND SUPPLIES 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER SERVICES 5. SUBAWARDS					2,000 4,500 10,000 1,274 0		
TOTAL EQUIPMENT E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS) 2. FOREIGN F. PARTICIPANT SUPPORT COSTS 1. STIPENDS 2. TRAVEL 3. SUBSISTENCE 4. OTHER (11) TOTAL PARTICIPANT COSTS 3. OTHER DIRECT COSTS 1. MATERIALS AND SUPPLIES 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER SERVICES					10,000 1,274 0 0 392,032 0		
TOTAL EQUIPMENT E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS) 2. FOREIGN F. PARTICIPANT SUPPORT COSTS 1. STIPENDS 2. TRAVEL 3. SUBSISTENCE 4. OTHER (11) TOTAL PARTICIPANT COSTS 1. MATERIALS AND SUPPLIES 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER SERVICES 5. SUBAWARDS 6. OTHER TOTAL OTHER DIRECT COSTS					2,000 4,500 10,000 1,274 0 0 392,032 0 393,306		
TOTAL EQUIPMENT E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS) 2. FOREIGN F. PARTICIPANT SUPPORT COSTS 1. STIPENDS 2. TRAVEL 3. SUBSISTENCE 4. OTHER (11) TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS 1. MATERIALS AND SUPPLIES 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER SERVICES 5. SUBAWARDS 6. OTHER TOTAL OTHER DIRECT COSTS					10,000 1,274 0 0 392,032 0		
TOTAL EQUIPMENT E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS) 2. FOREIGN F. PARTICIPANT SUPPORT COSTS 1. STIPENDS 2. TRAVEL 3. SUBSISTENCE 4. OTHER (11) TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS 1. MATERIALS AND SUPPLIES 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER SERVICES 5. SUBAWARDS 6. OTHER TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G)					2,000 4,500 10,000 1,274 0 0 392,032 0 393,306		
TOTAL EQUIPMENT E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS) 2. FOREIGN F. PARTICIPANT SUPPORT COSTS 1. STIPENDS 2. TRAVEL 3. SUBSISTENCE 4. OTHER (11) TOTAL PARTICIPANT COSTS 3. OTHER DIRECT COSTS 1. MATERIALS AND SUPPLIES 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER SERVICES 5. SUBAWARDS 6. OTHER TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE)					2,000 4,500 10,000 1,274 0 0 392,032 0 393,306		
TOTAL EQUIPMENT E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS) 2. FOREIGN F. PARTICIPANT SUPPORT COSTS 1. STIPENDS 2. TRAVEL 3. SUBSISTENCE 4. OTHER (11) TOTAL PARTICIPANT COSTS 3. OTHER DIRECT COSTS 1. MATERIALS AND SUPPLIES 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER SERVICES 5. SUBAWARDS 6. OTHER TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE) Salary (Rate: 78.00, Base: 30038)					2,000 4,500 10,000 1,274 0 0 392,032 0 393,306 450,657		
TOTAL EQUIPMENT E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS) 2. FOREIGN F. PARTICIPANT SUPPORT COSTS 1. STIPENDS 2. TRAVEL 3. SUBSISTENCE 4. OTHER (11) TOTAL PARTICIPANT COSTS 3. OTHER DIRECT COSTS 1. MATERIALS AND SUPPLIES 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER SERVICES 5. SUBAWARDS 6. OTHER TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE) Salary (Rate: 78.00, Base: 30038) TOTAL INDIRECT COSTS (F&A)					2,000 4,500 10,000 1,274 0 0 392,032 0 393,306 450,657		
TOTAL EQUIPMENT E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS) 2. FOREIGN F. PARTICIPANT SUPPORT COSTS 1. STIPENDS 2. TRAVEL 3. SUBSISTENCE 4. OTHER (11) TOTAL PARTICIPANT COSTS 1. MATERIALS AND SUPPLIES 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER SERVICES 5. SUBAWARDS 6. OTHER TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE) Salary (Rate: 78.00, Base: 30038) TOTAL INDIRECT COSTS (F&A) J. TOTAL DIRECT COSTS (F&A)	OFF OP				2,000 4,500 10,000 1,274 0 0 392,032 0 393,306 450,657 23,429 474,086		
TOTAL EQUIPMENT E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS) 2. FOREIGN F. PARTICIPANT SUPPORT COSTS 1. STIPENDS 2. TRAVEL 3. SUBSISTENCE 4. OTHER (11) TOTAL PARTICIPANT COSTS 3. OTHER DIRECT COSTS 1. MATERIALS AND SUPPLIES 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER SERVICES 5. SUBAWARDS 6. OTHER TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE) Salary (Rate: 78.00, Base: 30038) TOTAL INDIRECT COSTS (F&A) J. TOTAL DIRECT AND INDIRECT COSTS (H + I) K. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT PROJECTS	SEE GPC	€ II.D.7.	.)		2,000 4,500 10,000 1,274 0 0 392,032 0 393,306 450,657 23,429 474,086 0		
TOTAL EQUIPMENT E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS) 2. FOREIGN F. PARTICIPANT SUPPORT COSTS 1. STIPENDS 2. TRAVEL 3. SUBSISTENCE 4. OTHER (11) TOTAL PARTICIPANT COSTS 3. OTHER DIRECT COSTS 1. MATERIALS AND SUPPLIES 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER SERVICES 5. SUBAWARDS 6. OTHER TOTAL OTHER DIRECT COSTS 4. TOTAL DIRECT COSTS (A THROUGH G) INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE) Salary (Rate: 78.00, Base: 30038) TOTAL INDIRECT AND INDIRECT COSTS (H + I) K. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT PROJECTS L. AMOUNT OF THIS REQUEST (J) OR (J MINUS K)					2,000 4,500 10,000 1,274 0 0 392,032 0 393,306 450,657 23,429 474,086	\$	
TOTAL EQUIPMENT E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS) 2. FOREIGN F. PARTICIPANT SUPPORT COSTS 1. STIPENDS 2. TRAVEL 3. SUBSISTENCE 4. OTHER (11) TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS 1. MATERIALS AND SUPPLIES 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER SERVICES 5. SUBAWARDS 6. OTHER TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE) Salary (Rate: 78.00, Base: 30038) TOTAL INDIRECT AND INDIRECT COSTS (H + I) K. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT PROJECTS L. AMOUNT OF THIS REQUEST (J) OR (J MINUS K) M. COST SHARING PROPOSED LEVEL\$ 0 1. AGREED LEV			IT\$	\$	2,000 4,500 1,274 0 0 392,032 0 393,306 450,657 23,429 474,086 0 474,086	\$	
TOTAL EQUIPMENT E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS) 2. FOREIGN F. PARTICIPANT SUPPORT COSTS 1. STIPENDS 2. TRAVEL 3. SUBSISTENCE 4. OTHER (11) TOTAL PARTICIPANT COSTS 1. MATERIALS AND SUPPLIES 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER SERVICES 5. SUBAWARDS 6. OTHER TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) I. INDIRECT COSTS (F&A) (SPECIFY RATE AND BASE) Salary (Rate: 78.00, Base: 30038) TOTAL INDIRECT COSTS (F&A) J. TOTAL DIRECT AND INDIRECT COSTS (H + I) K. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT PROJECTS L. AMOUNT OF THIS REQUEST (J) OR (J MINUS K) M. COST SHARING PROPOSED LEVEL \$ 0 AGREED LEVEL PI/PD TYPED NAME & SIGNATURE* DATE			IT\$	\$	2,000 4,500 10,000 1,274 0 0 392,032 0 393,306 450,657 23,429 474,086 0	\$	
TOTAL EQUIPMENT E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS) 2. FOREIGN F. PARTICIPANT SUPPORT COSTS 1. STIPENDS 2. TRAVEL 3. SUBSISTENCE 4. OTHER (11) TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS 1. MATERIALS AND SUPPLIES 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER SERVICES 5. SUBAWARDS 6. OTHER TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) 1. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE) Salary (Rate: 78.00, Base: 30038) TOTAL INDIRECT AND INDIRECT COSTS (H + I) K. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT PROJECTS L. AMOUNT OF THIS REQUEST (J) OR (J MINUS K) M. COST SHARING PROPOSED LEVEL\$ 0 AGREED LEV	EL IF DIF	FEREN	IT \$ FOR I	\$	2,000 4,500 1,274 0 0 392,032 0 393,306 450,657 23,429 474,086 0 474,086		
TOTAL EQUIPMENT E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS) 2. FOREIGN E. PARTICIPANT SUPPORT COSTS 1. STIPENDS 2. TRAVEL 3. SUBSISTENCE 4. OTHER (11) TOTAL PARTICIPANT COSTS 3. OTHER DIRECT COSTS 1. MATERIALS AND SUPPLIES 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER SERVICES 5. SUBAWARDS 6. OTHER TOTAL OTHER DIRECT COSTS 4. TOTAL DIRECT COSTS (A THROUGH G) INDIRECT COSTS (F&A) (SPECIFY RATE AND BASE) Salary (Rate: 78.00, Base: 30038) TOTAL INDIRECT COSTS (F&A) J. TOTAL DIRECT AND INDIRECT COSTS (H + I) 4. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT PROJECTS) 2. AMOUNT OF THIS REQUEST (J) OR (J MINUS K) 4. COST SHARING PROPOSED LEVEL \$ 0 AGREED LEVEL AND DATE OF ARREST AND AGREED LEVEL \$ 0 AGREED LEVEL AND DATE OF AGREED LEVEL AND TOTAL DATE OF AGREED LEVEL AND TO	EL IF DIF	FEREN	IT \$ FOR I	\$ NSF U	2,000 4,500 1,274 0 0 392,032 0 393,306 450,657 23,429 474,086 0 474,086		

** E- Travel
Attend principal Logic Programming and Rewriting Conferences
(ILPS,ALP,PLILP,RTA)
and meet with other collaborators.
(see Budget Justification pages)

SUMMARY YEAR 2
PROPOSAL BUDGET FOR NSF USE ONLY

DRGANIZATION				POSAL	NO.	DURATIO	ON (months)			
Wesleyan University					Proposed		Granted			
PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR			AWARD NO							
James B Lipton										
A. SENIOR PERSONNEL: PI/PD, Co-PI's, Faculty and Other Senior Ass	sociates	NSF Pers	SF Funded erson-mos.		SF Funde	d S.	F	Funds	Funds	
(List each separately with title, A.7. show number in brackets)	С	AL A	CAD	SUMR	pr	uested By oposer	granted by NSF (if different)			
1. James B Lipton - PI	0	.00 (0.00	2.00	\$	14,560	\$			
2. Daniel J Dougherty - noco-PIne				2.00		16,519				
3.						,				
4.										
5.										
6. (0) OTHERS (LIST INDIVIDUALLY ON BUDGET JUSTIFICATION	N PAGE) 0	.00 (0.00	0.00		0				
7. (2) TOTAL SENIOR PERSONNEL (1 - 6)				4.00		31,079				
B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS)	U	.00 (0.00	7.00		31,077				
1. (1) POST DOCTORAL ASSOCIATES	0	00 (0 00	0.00		40,000				
				0.00						
2. (0) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER,	E1C.) U	.00 (U.UU	0.00		0				
3. (0) GRADUATE STUDENTS						0				
4. (0) UNDERGRADUATE STUDENTS						0				
5. (0) SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY)						0				
6. (0) OTHER						0				
TOTAL SALARIES AND WAGES (A + B)						71,079				
C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS)						8,393				
TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C)						79,472				
D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM	EXCEEDING \$	5,000.)								
Workstation + peripherals		\$	4	1,500						
				,						
TOTAL EQUIPMENT						4,500				
E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSE	SSIONS)					2,000				
2. FOREIGN		4,500								
		1,000								
F. PARTICIPANT SUPPORT COSTS										
1 STIPENINS \$										
2. TRAVEL 10,000										
3. SUBSISTENCE0										
lack										
4. OTHER						10 000				
(11) TOTAL PARTICIPANT COSTS						10,000				
G. OTHER DIRECT COSTS						1,295				
1. MATERIALS AND SUPPLIES										
2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION										
3. CONSULTANT SERVICES										
4. COMPUTER SERVICES										
5. SUBAWARDS										
6. OTHER										
TOTAL OTHER DIRECT COSTS										
H. TOTAL DIRECT COSTS (A THROUGH G)										
I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE)										
% of MTDC (Rate: 78.00, Base: 71079)										
TOTAL INDIRECT COSTS (F&A)		55,441								
J. TOTAL DIRECT AND INDIRECT COSTS (H + I)		5	554,515							
K. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT P		0								
L. AMOUNT OF THIS REQUEST (J) OR (J MINUS K)							\$			
M. COST SHARING PROPOSED LEVEL \$ 0 AGREED LEVEL IF DIFFERENT \$										
PI / PD TYPED NAME & SIGNATURE*	DATE	51111								
James B Lipton	<i>D</i> /(12	INI	DIDE		OR NSF USE ONLY COST RATE VERIFICAT					
ORG. REP. TYPED NAME & SIGNATURE*	DATE	Date Ch			e Of Rate	Initials - ORG				
ORG. REP. ITPED NAME & SIGNATURE DATE						2001				
		1					1			

** C- Fringe Benefits SUMR PI and co-PI benefits at 7.7% ACAD Postdoc Benefits at 15% ** E- Travel Attend principal Logic Programming, Software and Rewriting Conferences (ILPS,ALP,PLILP,RTA,TAPSOFT), meet with other collaborators. SUMMARY PROPOSAL BUDGET

YEAR 3
FOR NSF USE ONLY

RGANIZATION				POSAL	NO.	DURATIO	N (months)	
Wesleyan University					Propose		1	
PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR AWARD N								
James B Lipton								
A. SENIOR PERSONNEL: PI/PD, Co-PI's, Faculty and Other Senior Ass	ociates	NS Pe	F Funde	d	_ F	unds	Funds	
(List each separately with title, A.7. show number in brackets)			ACAD		Requ pr	uested By oposer	granted by NSF (if different)	
1. James B Lipton - PI				2.00	\$	15,142		
2. Daniel J Dougherty - co-PI				2.00		17,014	*	
3.			0.00			1,,01.		
4.								
5.								
6. ($oldsymbol{0}$) OTHERS (LIST INDIVIDUALLY ON BUDGET JUSTIFICATION	N PAGE) 0	.00.	0.00	0.00		0		
7. (2) TOTAL SENIOR PERSONNEL (1 - 6)			0.00			32,156		
B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS)	0	.00	0.00	7.00		52,150		
1. (0) POST DOCTORAL ASSOCIATES	0	00	0 00	0.00		0		
2. (0) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER,				0.00		0		
3. (0) GRADUATE STUDENTS	L10.) (0.00	0.00		0		
4. (0) UNDERGRADUATE STUDENTS						0		
5. (0) SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY)						0		
6. (0) OTHER						$\frac{0}{0}$		
TOTAL SALARIES AND WAGES (A + B)						32,156		
C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS)						2,476		
TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C)						34,632		
D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM	EVCEEDING ¢	5 000	١			34,034		
Hardware upgrades	EXCEEDING \$	\$,000 \$		4,500				
naruware upgraues		Ψ	-	+,500				
TOTAL FOLUDATAIT						4 500		
TOTAL EQUIPMENT 1 DOMESTIC (INCL. CANADA AND LLS. DOSSEI	SCIONS)					<u>4,500</u>		
E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSES 2. FOREIGN	55IUN5)					2,000 4,500		
Z. FOREIGN						4,500		
E DADTICIDANT SUDDORT COSTS								
F. PARTICIPANT SUPPORT COSTS 1. STIPENDS \$ 0								
2. TRAVEL 9,768								
3. SUBSISTENCE								
4. OTHER								
(11) TOTAL PARTICIPANT COSTS						9,768		
G. OTHER DIRECT COSTS						2,700		
						1,245		
MATERIALS AND SUPPLIES PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION								
						0		
3. CONSULTANT SERVICES						0		
4. COMPUTER SERVICES						01,178		
5. SUBAWARDS						01,178		
6. OTHER TOTAL OTHER DIRECT COSTS								
H. TOTAL DIRECT COSTS (A THROUGH G)								
, ,								
I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE)								
% of MTDC (Rate: 78.00, Base: 32156)								
TOTAL INDIRECT COSTS (F&A)								
J. TOTAL DIRECT AND INDIRECT COSTS (H + I)								
K. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT PROJECTS SEE GPG II.D.7.j.)							œ.	
L. AMOUNT OF THIS REQUEST (J) OR (J MINUS K) M. COST SHARING PROPOSED LEVEL \$ O AGREED LEVEL IF DIFFERENT \$							\$	
		FOR NSF USE ONLY						
PI / PD TYPED NAME & SIGNATURE*	DATE	<u> </u>	10:0-		DATION!			
James B Lipton	DATE	!				E VERIFIC		
ORG. REP. TYPED NAME & SIGNATURE*	DATE	Date C	Checked	Dat	e Of Rate	e oneet	Initials - ORG	

** E- Travel
Attend principal Logic Programming, Software and
Rewriting
Conferences (ILPS,ALP,PLILP,RTA,TAPSOFT), meet with
other collaborators.

SUMMARY YEAR 4
PROPOSAL BUDGET FOR NSF USE ONLY

ORGANIZATION				POSAL	NO.	DURATIO	N (months)
Wesleyan University					Propose		Granted
· · · · · · · · · · · · · · · · · · ·				ARD N	O.		
James B Lipton							
A. SENIOR PERSONNEL: PI/PD, Co-PI's, Faculty and Other Senior Ass	ociates	ŊS	SF Funde	d	F	unds	Funds
(List each separately with title, A.7. show number in brackets)			ACAD		Requ pr	lested By oposer	granted by NSF (if different)
1. James B Lipton - PI				2.00		16,311	
2. Daniel J Dougherty - co-PI				2.00		17,525	Ψ
3.	- 0		0.00	2.00		11,5225	
4.							
5.							
6. ($oldsymbol{0}$) OTHERS (LIST INDIVIDUALLY ON BUDGET JUSTIFICATION	J DAGE) 0	100	0.00	0.00		0	
7. (2) TOTAL SENIOR PERSONNEL (1 - 6)				4.00		33,836	
(- /		.00	0.00	4.00		33,030	
B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS)	0		Λ ΛΛ	0.00		Λ	
1. (0) POST DOCTORAL ASSOCIATES				0.00		0	
2. (0) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER,	ETC.) U	 UU	0.00	0.00		0	
3. (0) GRADUATE STUDENTS						0	
4. (0) UNDERGRADUATE STUDENTS						0	
5. (0) SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY)						0	
6. (0) OTHER						0	
TOTAL SALARIES AND WAGES (A + B)						33,836	
C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS)						2,605	
TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C)						36,441	
D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM	EXCEEDING \$	-					
workstation + hardware upgrades		\$	8	3,500			
TOTAL EQUIPMENT						8,500	1
E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSES	SSIONS)					2,000	
2. FOREIGN		4,500					
F. PARTICIPANT SUPPORT COSTS							
1. STIPENDS \$							
2. TRAVEL 9,500							
3. SUBSISTENCE — 0							
4. OTHER0							
(11) TOTAL PARTICIPANT COSTS						9,500	
G. OTHER DIRECT COSTS						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
1. MATERIALS AND SUPPLIES						1,295	
2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION							
3. CONSULTANT SERVICES							
4. COMPUTER SERVICES							
5. SUBAWARDS							
6. OTHER							
TOTAL OTHER DIRECT COSTS							
H. TOTAL DIRECT COSTS (A THROUGH G)							
I. INDIRECT COSTS (A THROUGH G) I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE)							
% of MTDC (Rate: 78.00, Base: 33836)							
TOTAL INDIRECT COSTS (F&A)							
J. TOTAL DIRECT AND INDIRECT COSTS (H + I)							
, ,	4	93,851 0					
K. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT PIL. AMOUNT OF THIS REQUEST (J) OR (J MINUS K)	\$ 4	93,851	¢				
							Ψ
'		r UIF	FEKEN		ICT !!	E ONLY	
PI / PD TYPED NAME & SIGNATURE*	DATE	<u> </u>	NDIDE			CATION	
James B Lipton	DATE	1	NDIREC Checked		Of Rate	E VERIFIC	Initials - ORG
ORG. REP. TYPED NAME & SIGNATURE*	DATE	Date	JI IECKEU	Date	o Nate	SINEEL	miliais - UKG

** E- Travel
Attend principal Logic Programming, Software and Rewriting
Conferences (ILPS,ALP,PLILP,RTA,TAPSOFT), meet with other collaborators.

SUMMARY YEAR 5
PROPOSAL BUDGET FOR NSF USE ONLY

DRGANIZATION				POSAL	NO.	DURATIO	ON (months)		
Wesleyan University				Propo		Granted			
PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR						·			
James B Lipton									
A. SENIOR PERSONNEL: PI/PD, Co-PI's, Faculty and Other Senior Ass	sociates	NS	F Funde	d	F	unds	Funds		
(List each separately with title, A.7. show number in brackets)				SUMR	Requ	uested By oposer	granted by NSF (if different)		
1 James B Lipton - PI		-		2.00		16,378			
2. Daniel J Dougherty - co-PI				2.00		18,051	Ψ		
3.	U	.00	0.00	2.00		10,031			
4.		_							
5.	NIDAGE) 0		0.00	Λ ΛΛ		Λ			
6. (0) OTHERS (LIST INDIVIDUALLY ON BUDGET JUSTIFICATIO				0.00		0			
7. (2) TOTAL SENIOR PERSONNEL (1 - 6)		.00	0.00	4.00		34,429			
B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS)			0.00	0.00					
1. (0) POST DOCTORAL ASSOCIATES				0.00		0			
2. (0) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER,	ETC.) 0	.00	0.00	0.00					
3. (0) GRADUATE STUDENTS						0			
4. (0) UNDERGRADUATE STUDENTS						0			
5. (0) SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY)						0			
6. (0) OTHER						0			
TOTAL SALARIES AND WAGES (A + B)						34,429			
C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS)						2,651			
TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C)						37,080			
D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM	EXCEEDING \$	5,000	.)						
hardware upgrades		\$		4,500					
nuraware appraises		•		1,000					
TOTAL EQUIPMENT						4,500			
E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSE	SSIONS)					2,000			
2. FOREIGN		4,500							
Z. I OILLIGIN		4,500							
5. DADTIGIDANT GUDDODT GOOTG									
F. PARTICIPANT SUPPORT COSTS									
1. STIPENDS \$ 0 500									
2. IRAVEL									
3. SUBSISTENCE									
4. OTHER									
(11) TOTAL PARTICIPANT COSTS						9,500			
G. OTHER DIRECT COSTS						1,296			
1. MATERIALS AND SUPPLIES									
2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION									
3. CONSULTANT SERVICES									
4. COMPUTER SERVICES									
5. SUBAWARDS	4	108,912							
6. OTHER		0							
TOTAL OTHER DIRECT COSTS									
H. TOTAL DIRECT COSTS (A THROUGH G)									
I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE)		67,788							
% of MTDC (Rate: 78.00, Base: 34429)									
TOTAL INDIRECT COSTS (F&A)			26,854						
J. TOTAL DIRECT AND INDIRECT COSTS (H + I)			194,642						
K. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT P		0							
L. AMOUNT OF THIS REQUEST (J) OR (J MINUS K)	\$ 4	194,642	\$						
	REED LEVEL II	E DIE	FEREN	IT ¢	Ψ 7	77,074	· *		
		ואוטיי	EKEN	SE ONLY					
PI/PD TYPED NAME & SIGNATURE*	DATE	<u> </u>	NDIDE		FOR NSF USE ONLY COST RATE VERIFICAT				
James B Lipton	DATE		NDIRE Checked		e Of Rate		Initials - ORG		
ORG. REP. TYPED NAME & SIGNATURE*	DATE	Daile (JI IECKED	Dat	e oi kate	SOURCE	miliais - ORG		

** E- Travel

Attend principal Logic Programming, Software and Rewriting Conferences (ILPS,ALP,PLILP,RTA,TAPSOFT), meet with other collaborators.

SUMMARY **Cumulative** PROPOSAL BUDGET FOR NSF USE ONLY **ORGANIZATION** PROPOSAL NO. **DURATION** (months) **Wesleyan University** Proposed Granted PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR AWARD NO. James B Lipton Funds Requested By proposer Funds granted by NSF (if different) A. SENIOR PERSONNEL: PI/PD, Co-PI's, Faculty and Other Senior Associates NSF Funded Person-mos. (List each separately with title, A.7. show number in brackets) CAL ACAD SUMR 0.00 | 0.00 | 10.00 | \$ 1. James B Lipton - PI 76,391 | \$ 2 Daniel J Dougherty - co-PI 0.00 0.00 10.00 85,147 4. 5. 0.00 0.00 0.00) OTHERS (LIST INDIVIDUALLY ON BUDGET JUSTIFICATION PAGE) 0 6. (7. (2) TOTAL SENIOR PERSONNEL (1 - 6) 0.00 | 0.00 | 20.00 161,538 B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS) 0.00 | 9.00 | 0.00 40,000 1. ($oldsymbol{1}$) POST DOCTORAL ASSOCIATES (1) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, ETC.) 0.00 0.00 0.00 0 0 3. (**0**) GRADUATE STUDENTS 0 4. (**0**) UNDERGRADUATE STUDENTS 5. (**0**) SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY) 0 6. (**0**) OTHER 0 201,538 TOTAL SALARIES AND WAGES (A + B) C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS) 18,438 TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C) 219,976 D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM EXCEEDING \$5,000.) 30,500 30,500 **TOTAL EQUIPMENT** E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS) 10,000 2. FOREIGN 22,500 F. PARTICIPANT SUPPORT COSTS 0 1. STIPENDS 48,768 2. TRAVEL 0 3 SUBSISTENCE 0 4. OTHER 48,768 (55) TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS 6.405 1. MATERIALS AND SUPPLIES 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION 0 3. CONSULTANT SERVICES 0 4. COMPUTER SERVICES 0 2,004,652 5. SUBAWARDS 6. OTHER TOTAL OTHER DIRECT COSTS 2,011,057 H. TOTAL DIRECT COSTS (A THROUGH G) 2,342,801 I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE) 157,199 TOTAL INDIRECT COSTS (F&A) 2,500,000 J. TOTAL DIRECT AND INDIRECT COSTS (H + I) K. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT PROJECTS SEE GPG II.D.7.j.) 0 \$ 2,500,000 | \$ L. AMOUNT OF THIS REQUEST (J) OR (J MINUS K) M. COST SHARING PROPOSED LEVEL \$ 0 AGREED LEVEL IF DIFFERENT \$ PI / PD TYPED NAME & SIGNATURE* DATE FOR NSF USE ONLY **James B Lipton** INDIRECT COST RATE VERIFICATION

ORG. REP. TYPED NAME & SIGNATURE*

Date Of Rate Sheet

Initials - ORG

Date Checked

DATE